

REMARKS

In response to the Office Action dated May 30, 2007, claims 4 and 7 are amended. and claims 1-3, 5-6, and 8-9 are cancelled without prejudice. Claims 4 and 7 are now active in this application. Claims 4 and 7 have been amended by incorporating elements from original claims 1 and 2. No new matter has been added.

Claims 4 and 7 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Youn (U.S. 7,030,843) in view of Choi (U.S. 6,741,238). This rejection is traversed.

Claim 4 recites, in pertinent part, “a controller for supplying a control signal to the source driver, wherein given that n is an integer of two or more, the polarity of an output voltage supplied from each output terminal is switched relative to a common voltage in every n horizontal scanning periods, and the timing of switching of the polarity of the output voltage is shifted by one horizontal scanning period for each frame, the source driver has a polarity shift circuit to which a polarity switching signal for controlling the switching of the polarity of the output voltage is inputted, and which outputs the polarity switching signal by **shifting the signal by one horizontal scanning period for each frame**, and the source driver has electrical charge recovering means which controls such that at least the two output terminals are short-circuited for a certain period of time in n horizontal scanning periods in reaction to the output of the polarity shift circuit.” Claim 7 recites similar elements.

FIG. 2 of the application illustrates an example of claims 4 and 7. Note the polarities in the four frames of FIG. 2, which is a two line dot matrix inversion and shifts the signal by one horizontal scanning period for each frame. Specifically, in FIG. 2 the signal shifts downward one scanning period each frame. For example, scanning period $2H$ in the First Frame has a

signal of “+ - + - + -”. This signal shifts downward to 3H in the Second Frame, and shifts downward to 4H in the Third Frame, and shifts downward to 5H in the Fourth Frame.

In contrast to the example of FIG. 2, note the prior art as illustrated by the two frames of FIG. 7B, which is also a two line dot matrix inversion but does **not** shift the signal by one horizontal scanning period for each frame.

In order to establish a *prima facie* obviousness rejection under 35 U.S.C. § 103(a), all the claim limitations must be taught or suggested by the prior art. *In re Rokyta*, 490 F. 2d 981, 180 USPQ 580 (CCPA 1974). Further, “rejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness.” *In re Kahn*, 441 F. 3d 977, 988 (Fed. Cir. 2006). At a minimum, the cited prior art does not disclose (expressly or inherently) the above recited limitation.

The Office Action, at pages 3 and 4, asserts that Youn discloses shifting the signal by one horizontal scanning period for each frame at FIG. 9. However, FIG. 9 does not teach or suggest shifting the signal. Rather, Youn, at column 10, line 26, states “the inversion shifts to the right side.” Thus, **Youn merely shifts the inversion**, which is totally distinct from “shifting the signal,” as recited by claims 4 and 7. This distinction is illustrated by contrasting FIG. 2 of the application with FIG. 9 of Youn.

Additionally, the other cited art (Choi) does not remedy the deficiencies of Youn.

Thus, Applicant submits that claims 4 and 7 are allowable over the cited art.

Accordingly, it is urged that the application, as now amended, is in condition for allowance, an indication of which is respectfully solicited. If there are any outstanding issues

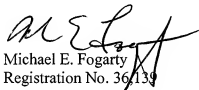
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that might be resolved by an interview or an Examiner's amendment, Examiner is requested to call Applicants' attorney at the telephone number shown below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 500417 and please credit any excess fees to such deposit account.

Respectfully submitted,

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